

We will be studying the following **patterns** after completing
the chapter on Functions.

Please feel free to try them on your own!

HOLLOW RECTANGLE pattern

```
* * * * *
*           *
*           *
* * * * *
```

APNA
COLLEGE

INVERTED & ROTATED HALF-PYRAMID pattern

```
* * * *  
* * *  
* * *  
* * *
```

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INVERTED HALF-PYRAMID with Numbers pattern

```
1 2 3 4 5  
1 2 3 4  
1 2 3  
1 2  
1
```

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FLOYD'S Triangle pattern

1				
2	3			
4	5	6		
7	8	9	10	
11	12	13	14	15

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0-1 Triangle pattern

```
1  
0 1  
1 0 1  
0 1 0 1  
1 0 1 0 1
```

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BUTTERFLY pattern

A grid of orange asterisk symbols on a dark gray background. The grid consists of 8 rows and 8 columns. The first row has 1 asterisk at the top-left and 1 at the top-right. The second row has 2 asterisks in the middle-left and 2 in the middle-right. The third row has 3 asterisks in the middle-left and 3 in the middle-right. The fourth row has 4 asterisks in the middle-left and 4 in the middle-right. The fifth row has 3 asterisks in the middle-left and 3 in the middle-right. The sixth row has 2 asterisks in the middle-left and 2 in the middle-right. The seventh row has 1 asterisk at the bottom-left and 1 at the bottom-right. The eighth row has 0 asterisks.

The logo features the text "APNA COLLEGE" in large, bold, sans-serif letters. The word "APNA" is in a dark grey color, while "COLLEGE" is in a gold color. To the left of the text, there are three yellow asterisks arranged vertically.

SOLID RHOMBUS pattern

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

APNA
COLLEGE

HOLLOW RHOMBUS pattern

```
*****
 *   *
*   *
  *
*****
 *   *
*   *
  *
*****
```

APNA
COLLEGE

DIAMOND pattern

```
*  
* * *  
* * * * *  
* * * * * * *  
* * * * * * *  
* * * * *  
* * *  
*
```

APNA
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NUMBER PYRAMID pattern

```
    1  
   2 2  
  3 3 3  
 4 4 4 4  
5 5 5 5 5
```

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PALINDROMIC Pattern with Numbers pattern

```
1  
2 1 2  
3 2 1 2 3  
4 3 2 1 2 3 4  
5 4 3 2 1 2 3 4 5
```

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